

Katsunari Oikawa

List of Publications by Year in descending order

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128
papers

9,766
citations

71102

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97
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130
all docs

130
docs citations

130
times ranked

3717
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic-field-induced shape recovery by reverse phase transformation. <i>Nature</i> , 2006, 439, 957-960.	27.8	1,631
2	Magnetic and martensitic transformations of NiMnX(X=In,Sn,Sb) ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2004, 85, 4358.	3.3	990
3	Cobalt-Base High-Temperature Alloys. <i>Science</i> , 2006, 312, 90-91.	12.6	884
4	Metamagnetic shape memory effect in a Heusler-type Ni ₄₃ Co ₇ Mn ₃₉ Sn ₁₁ polycrystalline alloy. <i>Applied Physics Letters</i> , 2006, 88, 192513.	3.3	378
5	Promising ferromagnetic Ni-Co-Al shape memory alloy system. <i>Applied Physics Letters</i> , 2001, 79, 3290-3292.	3.3	335
6	Magnetic and martensitic phase transitions in ferromagnetic Ni-Co-Ga-Fe shape memory alloys. <i>Applied Physics Letters</i> , 2002, 81, 5201-5203.	3.3	315
7	Phase Equilibria and Phase Transformations in New B2-type Ferromagnetic Shape Memory Alloys of Co-Ni-Ga and Co-Ni-Al Systems. <i>Materials Transactions</i> , 2001, 42, 2472-2475.	1.2	261
8	Effect of magnetic field on martensitic transition of Ni ₄₆ Mn ₄₁ In ₁₃ Heusler alloy. <i>Applied Physics Letters</i> , 2006, 88, 122507.	3.3	254
9	Phase Equilibria and Microstructure on γ ; γ' ; Phase in Co-Ni-Al-W System. <i>Materials Transactions</i> , 2008, 49, 1474-1479.	1.2	254
10	Observation of large magnetoresistance of magnetic Heusler alloy Ni ₅₀ Mn ₃₆ Sn ₁₄ in high magnetic fields. <i>Applied Physics Letters</i> , 2006, 89, 182510.	3.3	247
11	The magnetic and structural properties of the magnetic shape memory compound Ni ₂ Mn _{1.44} Sn _{0.56} . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2249-2259.	1.8	234
12	Kinetic arrest of martensitic transformation in the NiCoMnIn metamagnetic shape memory alloy. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	209
13	Partition behavior of alloying elements and phase transformation temperatures in Co-Al-W-base quaternary systems. <i>Intermetallics</i> , 2013, 32, 274-283.	3.9	193
14	Observation of field-induced reverse transformation in ferromagnetic shape memory alloy Ni ₅₀ Mn ₃₆ Sn ₁₄ . <i>Applied Physics Letters</i> , 2006, 88, 132505.	3.3	184
15	Low-temperature ordering of L1 ₀ -CoPt thin films promoted by Sn, Pb, Sb, and Bi additives. <i>Applied Physics Letters</i> , 2001, 78, 1104-1106.	3.3	150
16	The Control of the Morphology of MnS Inclusions in Steel during Solidification.. <i>ISIJ International</i> , 1995, 35, 402-408.	1.4	147
17	Ductility enhancement by boron addition in Co-Al-W high-temperature alloys. <i>Scripta Materialia</i> , 2009, 61, 612-615.	5.2	135
18	Stress-strain characteristics in Ni-Co-Ga-Fe ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2004, 84, 1275-1277.	3.3	133

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19	Magnetic and Martensitic Phase Transformations in a Ni ₅₄ Ga ₂₇ Fe ₁₉ Alloy. <i>Materials Transactions</i> , 2002, 43, 2360-2362.	1.2	120
20	Effect of Titanium Addition on the Formation and Distribution of MnS Inclusions in Steel during Solidification.. <i>ISIJ International</i> , 1997, 37, 332-338.	1.4	105
21	Entropy change at the martensitic transformation in ferromagnetic shape memory alloys Ni _{2+x} Mn _{1-x} Ga. <i>Journal of Applied Physics</i> , 2003, 93, 8483-8485.	2.5	100
22	Magnetic domain structures in Co-Ni-Al shape memory alloys studied by Lorentz microscopy and electron holography. <i>Acta Materialia</i> , 2002, 50, 2173-2184.	7.9	97
23	Metamagnetic shape memory effect in NiMn-based Heusler-type alloys. <i>Journal of Materials Chemistry</i> , 2008, 18, 1837.	6.7	96
24	Magnetocrystalline anisotropy in single-crystal Co-Ni-Al ferromagnetic shape-memory alloy. <i>Applied Physics Letters</i> , 2002, 81, 1657-1659.	3.3	94
25	Direct evidence of magnetically induced phase separation in the fcc phase and thermodynamic calculations of phase equilibria of the Co-Cr system. <i>Acta Materialia</i> , 2002, 50, 2223-2232.	7.9	91
26	Magnetic properties on shape memory alloys Ni ₂ Mn _{1+x} In. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 773-776.	2.3	85
27	Thermodynamic calculations of Fe-Zr and Fe-Zr-C systems. <i>Journal of Phase Equilibria and Diffusion</i> , 2001, 22, 406-417.	0.3	82
28	Phase transformations in Ni-Ga-Fe ferromagnetic shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 378, 403-408.	5.6	81
29	Magnetic-field-induced strain of Fe-Ni-Ga in single-variant state. <i>Applied Physics Letters</i> , 2003, 83, 4993-4995.	3.3	66
30	Effects of Pt and Ta on the magnetic anisotropy of Co and Co-Cr thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 202, 305-310.	2.3	62
31	Magnetic and Crystallographic Properties of Shape Memory Alloys Ni ₂ Mn _{1+x} Sn _{1-x} . <i>Materials Science Forum</i> , 0, 583, 119-129.	0.3	61
32	Magnetic domain structure in a ferromagnetic shape memory alloy Ni ₅₁ Fe ₂₂ Ga ₂₇ studied by electron holography and Lorentz microscopy. <i>Applied Physics Letters</i> , 2003, 82, 3695-3697.	3.3	58
33	Magnetic properties of Mn-rich Ni ₂ MnSn Heusler alloys under pressure. <i>Journal of Alloys and Compounds</i> , 2009, 486, 51-54.	5.5	56
34	Ferromagnetic Co-Ni-Al Shape Memory Alloys with β + γ ; Two-Phase Structure. <i>Materials Transactions</i> , 2004, 45, 427-430.	1.2	55
35	Temperature dependence of magnetocrystalline anisotropy constants in the single variant state of L1 ₀ -type FePt bulk single crystal. <i>Applied Physics Letters</i> , 2006, 88, 102503.	3.3	54
36	Phase equilibria and phase transformation of Co-Ni-Ga ferromagnetic shape memory alloy system. <i>Journal of Phase Equilibria and Diffusion</i> , 2006, 27, 75-82.	1.4	53

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37	New ternary compound Co ₃ (Ge,W) with L12 structure. Scripta Materialia, 2007, 56, 141-143.	5.2	51
38	Phase equilibria and thermodynamic calculation of the Co-Ta binary system. Intermetallics, 2014, 49, 87-97.	3.9	49
39	Effects of B and C on the ordering of L10-CoPt thin films. Applied Physics Letters, 2001, 79, 2001-2003.	3.3	48
40	Study of the low temperature ordering of L10-FePt in Fe/Pt multilayers. Journal of Applied Physics, 2003, 94, 7222-7226.	2.5	47
41	The effects of addition of deoxidation elements on the morphology of (Mn,Cr)S inclusions in stainless steel. Journal of Phase Equilibria and Diffusion, 1999, 20, 215-223.	0.3	46
42	Crystal structures and phase transitions in ferromagnetic shape memory alloys based on Co-Ni-Al and Co-Ni-Ga. Journal of Physics Condensed Matter, 2005, 17, 1301-1310.	1.8	46
43	Influence of intermartensitic transitions on transport properties of Ni ₂ .16Mn _{0.84} Ga alloy. Journal of Physics Condensed Matter, 2004, 16, 1951-1961.	1.8	43
44	Phase Equilibria and Phase Transition of the Ni-Fe-Ga Ferromagnetic Shape Memory Alloy System. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 767-776.	2.2	40
45	Influence of Co Addition on Martensitic and Magnetic Transitions in Ni-Fe-Ga Based Shape Memory Alloys. Materials Transactions, 2005, 46, 734-737.	1.2	38
46	Phase transformations and grain growth behaviors in superalloy 718. Journal of Alloys and Compounds, 2018, 737, 83-91.	5.5	37
47	Thermodynamic Calculations of Phase Equilibria in the Fe-Cr-S System.. ISIJ International, 2000, 40, 182-190.	1.4	36
48	Thermodynamic calculations of phase equilibria of Co-Cr-Pt ternary system and magnetically induced phase separation in the FCC and HCP phases. Journal of Magnetism and Magnetic Materials, 2001, 236, 220-233.	2.3	36
49	Magnetic Field-Induced Strain of Ni-Co-Mn-In Alloy in Pulsed Magnetic Field. Japanese Journal of Applied Physics, 2007, 46, 995-998.	1.5	33
50	Experimental Verification of Magnetically Induced Phase Separation in α -Co Phase and Thermodynamic Calculations of Phase Equilibria in the Co-W System. Materials Transactions, 2005, 46, 1199-1207.	1.2	32
51	Development of high density magnetic recording media for hard disk drives: materials science issues and challenges. International Materials Reviews, 2009, 54, 157-179.	19.3	32
52	Wassonite: A new titanium monosulfide mineral in the Yamato 691 enstatite chondrite. American Mineralogist, 2012, 97, 807-815.	1.9	32
53	A New Pb-free Machinable Ferritic Stainless Steel. ISIJ International, 2002, 42, 806-807.	1.4	31
54	Effects of annealing on martensitic and magnetic transitions of Ni-Ga-Fe ferromagnetic shape memory alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2043-2044.	2.3	31

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55	Thermodynamic Assessment of the Bi-Mn System. <i>Materials Transactions</i> , 2011, 52, 2032-2039.	1.2	31
56	Martensitic Transformation and Magnetic Properties of Cu-Ga-Mn β Alloys. <i>Materials Transactions</i> , 2004, 45, 2780-2784.	1.2	28
57	Prediction of effective elements for magnetically induced phase separation in Co-Cr-based magnetic recording media. <i>Applied Physics Letters</i> , 2001, 79, 644-646.	3.3	26
58	Microstructural change near the martensitic transformation in a ferromagnetic shape memory alloy Ni ₅₁ Fe ₂₂ Ga ₂₇ studied by electron holography. <i>Applied Physics Letters</i> , 2004, 85, 6170-6172.	3.3	26
59	Magnetic properties and phase stability of half-metal-type Co ₂ Cr _{1-x} Fe _x Ga alloys. <i>Journal of Alloys and Compounds</i> , 2005, 399, 60-63.	5.5	26
60	Thermodynamic assessment of the KCl-K ₂ CO ₃ -NaCl-Na ₂ CO ₃ system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 155-163.	1.6	26
61	Martensitic transformation in Ni-Fe-Ga alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 125-129.	5.6	26
62	Simulation of hexagonal-orthorhombic phase transformation in polycrystals. <i>Acta Materialia</i> , 2007, 55, 233-241.	7.9	25
63	Phase Equilibria and Ternary Intermetallic Compound with L1 ₂ Structure in Co-W-Ga System. <i>Journal of Phase Equilibria and Diffusion</i> , 2009, 30, 587-594.	1.4	25
64	Thermodynamic assessment for the Bi-Mn binary phase diagram in high magnetic fields. <i>Journal of Alloys and Compounds</i> , 2013, 577, 315-319.	5.5	21
65	Simulation of the Center-Line Segregation Generated by the Formation of Bridging. <i>ISIJ International</i> , 2014, 54, 359-365.	1.4	20
66	Morphology of Sulfide Formed in the Fe-Cr-S Ternary Alloys.. <i>ISIJ International</i> , 2002, 42, 1297-1302.	1.4	19
67	Shape Memory Effect Associated with FCC-HCP Martensitic Transformation in Co-Al Alloys. <i>Materials Transactions</i> , 2003, 44, 2732-2735.	1.2	19
68	Effect of Alloying Elements on fcc/hcp Martensitic Transformation and Shape Memory Properties in Co-Al Alloys. <i>Materials Transactions</i> , 2006, 47, 2381-2386.	1.2	19
69	Martensitic Transformation in NiCoMnSn Metamagnetic Shape Memory Alloy Powders. <i>Materials Transactions</i> , 2008, 49, 1915-1918.	1.2	19
70	Molecular-dynamic simulations of martensitic transformation of cobalt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 2307-2314.	2.2	17
71	Magnetocrystalline Anisotropy in a Single-Variant Co-Ni-Al Ferromagnetic Shape Memory Alloy. <i>Materials Transactions</i> , 2003, 44, 2180-2183.	1.2	16
72	Influence of hot-working conditions on grain growth of superalloy 718. <i>Journal of Materials Processing Technology</i> , 2019, 267, 26-33.	6.3	15

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73	Preparation of Sputter-deposited Fe–Pd Thin Films. Materials Transactions, JIM, 2000, 41, 1139-1141.	0.9	13
74	Phase Equilibria in Ni-Rich Portion of Ni-Si System. Materials Transactions, 2007, 48, 2259-2262.	1.2	13
75	Reassessment of Liquid/Solid Equilibrium in Ni-Rich Side of Ni-Nb and Ni-Ti Systems. Materials Transactions, 2010, 51, 781-786.	1.2	13
76	Assessment of Temperature and Pressure Dependence of Molar Volume and Phase Diagrams of Binary Al&ndash;Si Systems. Materials Transactions, 2014, 55, 1673-1682.	1.2	12
77	Morphology Control of MnS in Steel during Solidification. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1994, 80, 623-628.	0.4	11
78	Phase Transformation of Ni₂MnGa Made by the Spark Plasma Sintering Method. Materials Transactions, JIM, 1999, 40, 389-391.	0.9	11
79	A Thermodynamic Database for Fe-Cr-Mn-Ni-Ti-S-C-N System. Materials Science Forum, 2005, 500-501, 711-718.	0.3	11
80	FCC/HCP Martensitic Transformation and High-Temperature Shape Memory Properties in Co-Si Alloys. Materials Transactions, 2006, 47, 2377-2380.	1.2	10
81	A large magnetic-field-induced strain in Ni&eacron;Fe&eacron;Mn&eacron;Ga&eacron;Co ferromagnetic shape memory alloy. Journal of Alloys and Compounds, 2013, 577, S372-S375.	5.5	10
82	Simulation of the Center-Line Segregation Generated by the Formation of Bridging. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2013, 99, 94-100.	0.4	10
83	Three-dimensional Numerical Simulation of Channel Segregation in Directionally Solidified Sn-20 mass% Bi Ingot. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2013, 99, 135-140.	0.4	10
84	Methodological Progress for Computer Simulation of Solidification and Casting. ISIJ International, 2010, 50, 1724-1734.	1.4	9
85	Assessment of the temperature and pressure dependence of molar volume and phase diagrams of Cu and Zn. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 47, 114-122.	1.6	9
86	Kinetics of Nitrogen Absorption and Desorption in High-Cr Molten Steel under Pressurized Atmosphere. ISIJ International, 2016, 56, 1746-1750.	1.4	9
87	Solidification of Cu-Cu₂S Alloys in Stable and Metastable Systems. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1995, 59, 1207-1214.	0.4	8
88	Alloy Phase Diagrams Study and Its Application for New Alloy Development. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 545-556.	0.4	8
89	Phase Equilibria in Fe&eacron;XS and Mn&eacron;XS (X=Ti, Nb and V) Systems. ISIJ International, 2009, 49, 936-941.	1.4	8
90	Numerical Simulation of Effect of Thermo-solutal Flow on Macrosegregation in Continuously Cast Slabs. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 747-754.	0.4	8

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91	Estimation of γ/β interfacial energy in Ni-Co base superalloy TMW-4M3. Journal of Crystal Growth, 2019, 506, 91-96.	1.5	8
92	Experimental investigations of fcc/bcc phase equilibria in the Cr-Mn-Ni ternary system. Intermetallics, 2020, 127, 106994.	3.9	8
93	Investigation on the β -phase-related equilibria in Cr-Mn-Co system. Journal of Alloys and Compounds, 2021, 867, 159024.	5.5	8
94	Compressive Properties of Ni ₂ MnGa Produced by Spark Plasma Sintering. Materials Transactions, JIM, 1999, 40, 863-866.	0.9	7
95	Development of Machinable High-Strength Copper-Based Alloys by Sulfide Dispersion. Materials Transactions, 2003, 44, 2088-2093.	1.2	6
96	Magnetic Anisotropy Energy of L1 ₀ CoPt-B Thin Films Elongated c-axis. Materials Transactions, 2003, 44, 1514-1517.	1.2	6
97	Segregation Mechanism of Al-based Oxides on Surface of Zn-0.2mass%Al Hot-dip Galvanized Steel Sheets. ISIJ International, 2020, 60, 1765-1773.	1.4	6
98	Solubility Products of VS and NbS in Iron Alloys. ISIJ International, 2009, 49, 942-946.	1.4	5
99	Effect of Cu Addition on Precipitation and Growth Behavior of MnS in Silicon Steel Sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3843-3851.	2.2	5
100	Microstructural Evolution of Sulfide in Fe-Cr-S Alloys. Materials Science Forum, 2003, 426-432, 993-998.	0.3	4
101	High-Temperature Mechanical Properties of NaCl-Na ₂ CO ₃ Salt-Mixture Removable Cores for Aluminum Die-Casting. Materials Transactions, 2019, 60, 19-24.	1.2	4
102	Investigation of Crystal Shape Controllability in the Micro-Pulling-Down Method for Low-Wettability Systems. ACS Omega, 2021, 6, 8131-8141.	3.5	4
103	Effects of Aging and Co Addition on Martensitic and Magnetic Transitions in Ni-Al-Fe ₂ -based Shape Memory Alloys. ISIJ International, 2006, 46, 1287-1291.	1.4	4
104	Phase Equilibria and Microstructure of sulfide in Steel. Denki-seiko, 2004, 75, 113-120.	0.0	4
105	Effect of Grinding Stress on the Phase Transformation of Ni ₂ CrMnGa Powder. Materials Transactions, JIM, 1999, 40, 290-293.	0.9	3
106	Influence of Y-Rich Compounds on High-Cycle Fatigue Performance of Y-Doped M951 Superalloy. Journal of Materials Engineering and Performance, 2019, 28, 6053-6062.	2.5	3
107	Improved elongation in high-strength low-alloy steel by non-monotonic tensile loading and dislocation-based phenomenological plasticity modeling. Materialia, 2019, 8, 100464.	2.7	3
108	Phase equilibria, martensitic transformations and deformation behaviors of the subsystem of Cantor alloy~low-cost Fe-Mn-Cr alloys. Materialia, 2021, 20, 101231.	2.7	3

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109	Mechanical and thermoelectric properties of iridium-ruthenium alloy grown by the micro-pulling-down method. <i>Journal of Crystal Growth</i> , 2021, 573, 126256.	1.5	3
110	Influence of heat flux different between wide and narrow face in continuous casting mould on unevenness of hypo-peritectic steel solidification at off-corner. <i>Ironmaking and Steelmaking</i> , 2022, 49, 845-859.	2.1	3
111	Molecular Dynamics Simulations of Nucleation Process from Supercooled Liquid Pt with EAM Potentials. <i>Materials Transactions</i> , 2001, 42, 2299-2306.	1.2	2
112	Experimental Verification of Magnetically Induced Phase Separation in .ALPHA.Co Phase and Thermodynamic Calculations of Phase Equilibria of Co-W System. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2004, 68, 992-1001.	0.4	2
113	The Effect of Solidification Models on the Prediction Results of the Temperature Change of the Aluminum Cylinder Head Estimated by FDM Solidification Analysis. <i>Materials Science Forum</i> , 2007, 561-565, 1967-1970.	0.3	2
114	Control of Phase Transformation Temperatures by Substituents in Ni-Fe-Ga Ferromagnetic Shape Memory Alloys. <i>Materials Transactions</i> , 2007, 48, 2847-2850.	1.2	2
115	Effect of Zr Addition on Magnetostriction of Tb-Dy-Fe Alloys Prepared by Micro-Pulling-Down Method. <i>Materials Science Forum</i> , 0, 783-786, 2497-2502.	0.3	2
116	Microstructure prediction of TMW-4M3 during heat treatment. <i>Computational Materials Science</i> , 2018, 143, 95-102.	3.0	2
117	Grain Refinement of Heat Affected Zone in High Heat Input Welding by Liquid Phase Pinning of Oxy-Sulfide. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014, 100, 397-405.	0.4	2
118	High Temperature Deformation and Microstructure Evolution of Ni-Co Base Superalloy TMW-4M3. <i>Materials Transactions</i> , 2020, 61, 632-640.	1.2	2
119	Morphology Control of Sulfide in Fe-Cr-S alloys during the solidification. <i>Materials Research Society Symposia Proceedings</i> , 1999, 580, 369.	0.1	1
120	Effect of Ti and Al Addition on Solidification Structure of Ni-Fe-Mo-Cu Alloys. <i>ISIJ International</i> , 2011, 51, 2029-2035.	1.4	1
121	Observation and Solidification Simulation of Microsegregation in Ni-base Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2013, 99, 80-86.	0.4	1
122	Magnetic field effect on the liquidus boundary of Bi-Mn binary system. , 2014, , .		1
123	Diffusion Behavior of Al in Zn Coating Layer of Zn-0.2mass%Al Hot-dip Galvanized Steel Sheets with and without Temper Rolling during Aging after Production. <i>ISIJ International</i> , 2021, 61, 2264-2273.	1.4	1
124	Phase Stability of the L12 Compound and Microstructural Changes in Co-(W or Mo)-Ta Ternary Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1128, 60801.	0.1	0
125	Generation and Progress Behavior of Strain-Induced Abnormally Large Grains in Superalloy 718. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4022-4032.	2.2	0
126	Thermodynamic analysis of KCl-KF-AlCl ₃ -AlF ₃ system. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 2021, 71, 32-38.	0.4	0

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127	2117 Superelasticity of Co-Ni-Al ferromagnetic shape memory alloys. The Proceedings of the JSME Annual Meeting, 2007, 2007.1, 171-172.	0.0	0
128	Influence of Cu and Mg addition on age-related deterioration in strength and creep behavior of Zn-12Al die casting alloys. International Journal of Materials Research, 2017, 108, 151-154.	0.3	0